

4TH IAA CONFERENCE ON UNIVERSITY SATELLITE MISSIONS AND CUBESAT WORKSHOP

December 4th - 7th, 2017

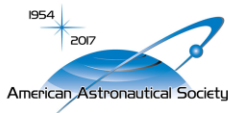
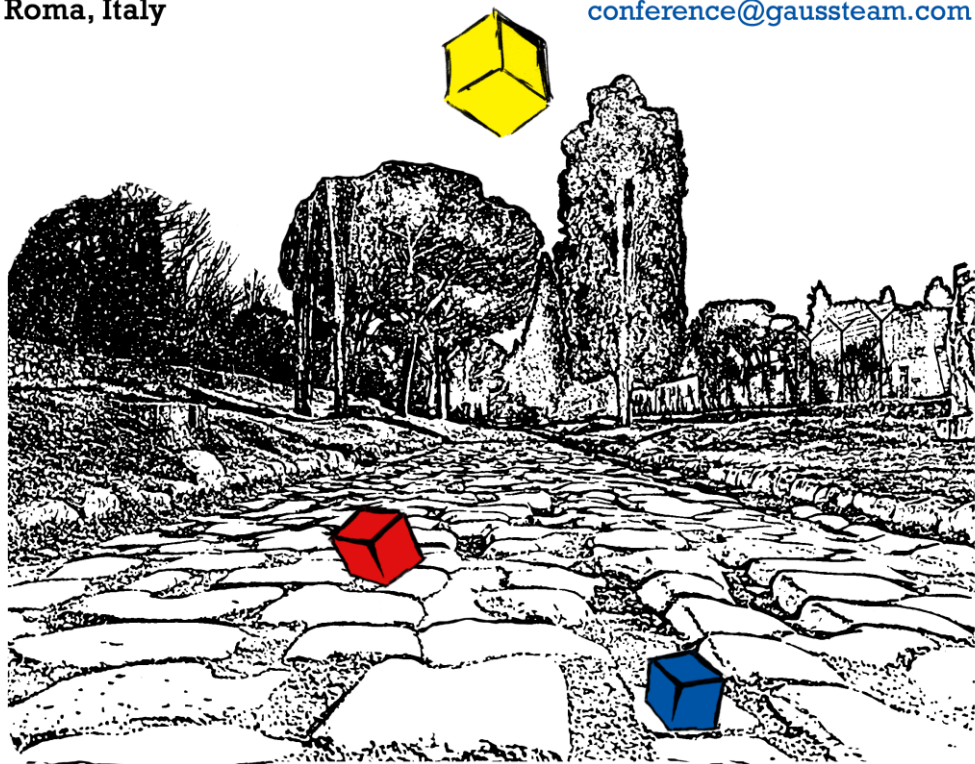
Palazzo Rospigliosi

Roma, Italy

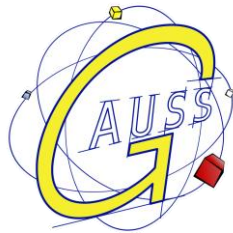
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The event is organized by:



Group of Astrodynamics for the Use of Space Systems

Sponsored by:



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Riccardo Di Roberto, *GAUSS SRL*
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Media Coverage

Olga Ovchinnikova

MONDAY, December 4th, 2017

14:00-14:30 Registration

14:30-14:40 Welcome Address - Filippo Graziani (GAUSS President, IAA Member)

14:40-15:00 Opening Lecture - Jean-Michel Contant (IAA Secretary General)

15:00-15:30 Invited Lecture – Leon Alkalai (NASA Jet Propulsion Laboratory): CubeSats and SmallSats as a Vehicle for Space Innovation and the Exploration of Space Beyond Lower Earth Orbit.

15:30-16:00 Invited Lecture – Fernando Aguado Agelet (University of Vigo): Fire-rs: A Nano-Satellite & IAVs Hybrid System for Wildfire Characterization.

16:00-16:15 Coffee break

16:15-17:15 Technical Sessions: Launch

IAA-AAS-CU-17-01-04

Dnepr program as a Path to Orbits for University Spacecraft - *Vladimir Andreev (Founder of ISC Kosmotras and Dnepr program)*

IAA-AAS-CU-17-01-05

New Launch Opportunities with Soyuz LV - *Alexander Serkin, Evgeny Solodovnikov (GK Launch Services)*

IAA-AAS-CU-17-01-01

Avionics and Launch Opportunities for a European Microlauncher - *Emanuele Di Sotto, M. Melara, C. Dominguez, F. Pace, L. Cercos, V. Barrena, G. Novelli, T. Milhano, L. Herrador, R. Torres, R. Verdú (GMV, PLD Space)*

IAA-AAS-CU-17-01-06

The UniSat Platform and GAUSS Technology for your CubeSat - *Riccardo Di Roberto, Vladislav Solovey, Chantal Cappelletti, Filippo Graziani (GAUSS SRL)*

17:15-18:45 Technical Sessions: Payload

IAA-AAS-CU-17-02-01

On-chip Microincubator with Integrated Sensors and Actuators - *Lorenzo Iannascoli, M. Nardecchia, F. Costantini, N. Lovecchio, D. Caputo, G. De Cesare, A. Nascetti (Sapienza University of Rome)*

IAA-AAS-CU-17-02-02

Multi-satellite Project “Universat-Sokrat” for Natural and Artificial Hazards Monitoring – *Vladislav I. Osedlo, V.A. Sadovnichii, M.I. Panasyuk, V.M. Lipunov, the Universat-SOCRAT project collaboration (Moscow State University)*

IAA-AAS-CU-17-02-03

Study of Transient Electromagnetic Events and Magnetosphere Electron Flux Dynamics on board Small Satellite Missions Vernov and Lomonosov as Experience for Multi Small Satellite Mission for Monitoring of Natural and Artificial Space Hazards - *M.I. Panasyuk, V.M. Lipunov, V.V. Bogomolov, A.V. Bogomolov, G.K. Garipov, A.F. Iyudin, P.A. Klimov, V.I. Osedlo, V.L. Petrov, S.I. Svertilov, I.V. Yashin (Moscow State University)*

IAA-AAS-CU-17-02-04

NEMS-Technology Based Nanogripper for Mechanic Manipulation in Space Exploration Missions - *Alessio Buzzin, A. Veroli, G. de Cesare, N.P. Belfiore (Sapienza University of Rome, Centro Studi e Ricerche “Enrico Fermi”, Roma Tre University)*

IAA-AAS-CU-17-02-05

MECSE: a CubeSat Mission Aiming to Measure and Manipulate the Ionospheric Plasma Layer - Jorge B. Monteiro, A. Azevedo, G. Parda, A. Guerman, J. Páscoa, F. Dias, T. Rebelo, A. João, P. Figueiredo (University of Beira Interior, CEiiA - Centre of Engineering and Product Development)

IAA-AAS-CU-17-02-06

OUFTI-Next: the Second CubeSat of the University of Liège - Xavier Werner, Serge Habraken, Gaëtan Kerschen, Jérôme Loicq (University of Liège, Centre Spatial de Liège (CSL))

TUESDAY, December 5th, 2017

Beletsky Memorial Session

09:30-10:00 Invited Lecture - Mikhail Ovchinnikov (Keldysh Institute of Applied Mathematics): From Classical Theory to Innovation Practice. In Memory of Professor Vladimir Beletsky.

10:00-10:05 Invited Lecture - Giuseppe Rega (Sapienza University of Rome): Memories of an Italian Colleague.

10:05-10:30 Invited Lecture - Paolo Teofilatto (School of Aerospace Engineering): The Beletsky Equation for Attitude Motion of Satellites in Elliptic Orbits.

10:30-10:45 Coffee break

10:45-11:15 Invited Lecture - Arun Misra (McGill University): Tether-Connected CubeSats.

11:15-11:45 Invited Lecture - Anna Guerman (University of Beira Interior): Dynamics and Control of Space Tethers.

11:45-13:00 Technical Sessions: Mission

IAA-AAS-CU-17-03-17

System Design and Application Practice of Modulized Microsatellite - Cao Jin, Si Chaoming, Shi Qi, Guo Chongbin (Winano Institute)

IAA-AAS-CU-17-03-02

NANOSATC-BR Status - A Joint CubeSat-Based Program Developed by INPE and UFSM - Nelson Jorge Schuch, Otávio Santos Cupertino Durão, Marlos Rockenbach da Silva, Fátima Mattiello-Francisco, André Luís da Silva, The NANOSATC-BR Team (Southern Regional Space Center - CRS/COCRE/INPE-MCTIC, National Institute for Space Research (INPE), Federal University of Santa Maria (UFSM), INPE/MCTIC, UFSM, SMDH, UFRGS, UFABC, UFMG, EMSISTI, ITA/DCTA-MD)

IAA-AAS-CU-17-03-03

NANOSATC-BR2, 2 Unit CubeSat, Power Analysis, Solar Flux Prediction, Design and 3D Printing of the Flight Model from the UFSM & INPE's NANOSATC-BR, CubeSats Development Program - Lorenzo Quevedo Mantovani, Rodrigo Passos Marques, Alex Müller, Eduardo Xavier Barreto, André Luís da Silva, Otávio Santos Cupertino Durão, Fátima Mattiello-Francisco, Nelson Jorge Schuch (Federal University of Santa Maria (UFSM), National Institute for Space Research (INPE/MCTIC), Southern Regional Space Research Center - CRS/COCRE/INPE-MCTIC)

IAA-AAS-CU-17-03-04

IAA-PAID Home-Made Satellite: Introduction to CubeSat Design in Pan African Institutes for Africans to Space and Space to Africa - *Tomukum Chja, Fangyong Frederick Ngwah (International Academy of Astronautics, Global Centre for Compliance, Hazards and Disaster Management (GLOCECOHADIM))*

IAA-AAS-CU-17-03-05

Small Satellites, CubeSats and University Satellites in Africa and Their Missions - *Mohamed B. Argoun, G. Mansour (Cairo University, Helwan University)*

13:00-14:15 Lunch

14:15-14:45 Invited Lecture – Benjamin K. Malphrus (Morehead State University): A New Era of Planetary Exploration with Small Satellites.

14:45-15:15 Technical Sessions: Mission

IAA-AAS-CU-17-03-06

The AlSat-1N CubeSat Mission - *Ben Taylor, Chiara Massimiani, Richard Duke, Brian Stewart, Simon Fellowes, Christopher P. Bridges, Guglielmo Aglietti (SSC University of Surrey)*

IAA-AAS-CU-17-03-07

An Analytical Approach to Autonomous Optical Navigation for a CubeSat Mission to a Binary Asteroid System - *Dario Modenini, Marco Zannoni, Riccardo L. Manghi, Paolo Tortora (University of Bologna)*

15:15-16:15 Technical Sessions: Space Debris Mitigation

IAA-AAS-CU-17-04-07

Numerical Simulation of Deformation and Destruction of Meteoroids Using Liquid Drop Model - *Khaled Alhussan (King Abdulaziz City for Science and Technology)*

IAA-AAS-CU-17-04-03

Plasma Brake Approximate Trajectory. Part I: Geocentric Motion - *Lorenzo Niccolai, Marco Bassetto, Alessandro A. Quarta, Giovanni Mengali (University of Pisa)*

IAA-AAS-CU-17-04-04

Plasma Brake Approximate Trajectory. Part II: Relative Motion - *Marco Bassetto, Lorenzo Niccolai, Alessandro A. Quarta, Giovanni Mengali (University of Pisa)*

IAA-AAS-CU-17-04-05

The InflateSail CubeSat Mission – The First European Demonstration of Drag-Sail De-Orbiting - *Craig Underwood, Andrew Viquerat, Mark Schenk, Simon Fellowes, Ben Taylor, Chiara Massimiani, Richard Duke, Brian Stewart, Christopher P. Bridges, Davide Masutti, Amandine Denis (University of Surrey, University of Bristol, Von Karman Institute)*

16:15-16:30 Coffee break

16:30-17:30 Technical Sessions: Space Debris Mitigation

IAA-AAS-CU-17-04-06

CubeSat Technology in Service to Larger Active Debris Removal Missions - *Jason Forshaw, Ben Taylor, Richard Duke, Simon Fellowes, Brian Stewart, Guglielmo Aglietti (University of Surrey)*

IAA-AAS-CU-17-04-09

Trade Study for Post-Mission Disposal Devices for Microsats and Smaller - *Rei Kawashima (UNISEC-Global)*

IAA-AAS-CU-17-04-01

Drag De-orbit Device (D3) Mission for Validation of Controlled Spacecraft Re-entry
Using Aerodynamic Drag - *Sanny Omar, David Guglielmo, Riccardo Bevilacqua (University of Florida)*

IAA-AAS-CU-17-04-08

Autonomous Deorbiting Device for CubeSat Based on Palmer-Shafer Flasher - *Pedro Luiz Kaled Da Cas, Simone Battistini, Chantal Cappelletti (University of Brasilia)*

17:30-19:00 IAA REGIONAL MEETING

Introduction – Antonio Viviani (Italy Regional Secretary, IAA)

Opening - Jean-Michel Contant (Secretary General, IAA)

Invited Lecture – Amalia Finzi (Polytechnic University of Milan):

“Ha una coda questa stella, che la rende molto bella.....La missione Rosetta”

“This star has a tail, which makes it very beautifulThe Rosetta mission”

Play the video of 2017 IAA Von Karman Award

Introduction of new IAA Academicians

Issuing of Certificates and group photo

20:00 GALA DINNER

WEDNESDAY, December 6th, 2017

09:30-10:00 Invited Lecture – Guglielmo Aglietti (Surrey Space Centre): *An Overview of Surrey Space Centre Research and Educational Missions.*

10:00-10:30 Invited Lecture – Mengyu Cho (Kyushu Institute of Technology): *Lessons Learned of BIRDS-I Constellation Mission.*

10:30-10:45 Coffee break sponsored by DHV Technology

10:45-13:00 Technical Sessions: Attitude Control

IAA-AAS-CU-17-05-01

Development of the MICRO_CATHODE_ARC Thrusters for Cube Satellite Propulsion and Recent Flight Experiments - *Michael Keidar (The George Washington University)*

IAA-AAS-CU-17-05-02

Efficient Star Identification Algorithm for Nanosatellites in Harsh Environment - *Vincenzo Schiattarella, Dario Spiller, Fabio Curti (Sapienza University of Rome)*

IAA-AAS-CU-17-05-03

Gain Selection for Attitude Stabilization of Earth-Pointing Spacecraft Using Magnetorquers - *Fabio Celani (Sapienza University of Rome)*

IAA-AAS-CU-17-05-04

Magnetorquer Based Sun Tracking System Design for 2U CubeSat - *Hammam Abdelwahab, Abdelaziz Ahmed Hasan, Samir Mohamed, Mohammed Ahmed Abbasher (University of Khartoum)*

IAA-AAS-CU-17-05-05

Residual Magnetic Torque Estimation for Nano-Satellite - *Kai Yoshihara, Masahiko Yamazaki, Yasuyuki Miyazaki (Nihon University)*

IAA-AAS-CU-17-05-06

Project and Development of an Active Magnetic Actuator for Attitude Control System of Nanosatellites - *Igor Seiti Kinoshita Ishioka, Simone Battistini, Chantal Cappelletti, Renato Alves Borges (University of Brasília)*

IAA-AAS-CU-17-05-07

Microsatellite Mock-Up Control Using Reinforcement Learning Technique - *Mark Shachkov, Danil Ivanov, Mikhail Ovchinnikov (Moscow Institute of Physics and Technology, Keldysh Institute of Applied Mathematics)*

IAA-AAS-CU-17-05-08

Lyapunov Based Attitude Control Algorithm for Slew Maneuvers with Restrictions - *Yaroslav V. Mashtakov, Mikhail Yu. Ovchinnikov, Stepan S. Tkachev, Mark Shachkov (Keldysh Institute of Applied Mathematics)*

IAA-AAS-CU-17-05-09

Development of a Hardware-in-the-Loop Test Platform for Nanosatellites ADCS Integrated with an UKF - *João Victor Lopes de Loiola, Lucas Meneses Bandeira da Silva, Simone Battistini, Chantal Cappelletti, Renato Alves Borges (University of Brasília)*

13:00-14:15 Lunch

14:15-16:00 Technical Sessions: Mission

IAA-AAS-CU-17-06-09

Lunisat Orbit Maintenance and Low-Thrust Maneuvers - *Mauro Pontani, Riccardo Di Roberto, Filippo Graziani (Sapienza University of Rome, GAUSS)*

IAA-AAS-CU-17-03-08

AlSat-2B Mission: Transfer and First Year of a Constellation - *B. Nasri, A. Aroui, M. Kameche, H. Benzeniar, M.A. meghebbber (Centre de Développement des Satellites)*

IAA-AAS-CU-17-03-09

Technical Knowledge Gaps in Niche Use Cases of Small Satellites - *David Earle, Rayan Imam, Olga Mamoutova, Jorge Monteiro, Siddhesh Naik, Yasith Ramawickrama, Daria Stepanova, Kiran Tikare, Alejandro Lopez, Patricia Randazzo (SGAC, University of Khartoum, St. Petersburg Polytechnic University, Moscow Institute of Physics and Technology)*

IAA-AAS-CU-17-03-10

Aalto-1 Satellite First Months in Orbit - *Petri Niemelä, J. Praks, A. Kestilä, A. Näsilä, T. Tikka, N. Silva, H. Leppinen, R. Vainio, B. Riwanto, P. Janhunen (Aalto University, VTT Technical Research Centre of Finland, Reaktor Space Lab, University of Turku, Finnish Meteorological Institute)*

IAA-AAS-CU-17-03-11

CubeSat Onboard Mission Scheduling for UOKSat-3: Scheduling Algorithms Comparison - *Rayan Imam (University of Khartoum)*

IAA-AAS-CU-17-03-12

KSU-CubeSat Project - *Ziyad AlSamhan, Mohannad Alshehri, Feras AbuHaimed (King Saud University)*

IAA-AAS-CU-17-03-13

Mission Planning Web Application for Earth Observation Missions - *Loke Wei Ting, R.H.-Y. Ng, J.Z.-Q. Lim, A.N. Nikicio, Z.-N. Ng, C.-H. Goh (National University of Singapore)*

16:00-16:15 Coffee break sponsored by DHV Technology

16:15-17:00 Technical Sessions: Mission

IAA-AAS-CU-17-03-14

Flight Results of the nSight-1 QB50 CubeSat Mission - *Lourens Visagie, W.H. Steyn, H. Burger, D.F. Malan (Stellenbosch University, SCS-Space)*

IAA-AAS-CU-17-03-15

A Small Platform Application for the Inspection of an Uncontrolled Satellite - *Renato Volpe, Angelo Stolfi, Marco Carpentiero (Sapienza University of Rome)*

IAA-AAS-CU-17-03-16

Modular Type Lean Microsatellite Platform and Microsatellite on its Base for Atmosphere Aerosol Study - *V. Maslyey, S. Moskalev, D. Halaburda, A. Kulyk (Yuzhnoye State Design Office)*

17:00-19:00 Technical Sessions: Mission Design

IAA-AAS-CU-17-06-01

Saving Mission yet to be Launched: Tight Schedule for an Unexpected Project - *Dmitry Roldugin, M.Yu. Ovchinnikov, D.S. Ivanov, M.O. Shachkov, M.D. Koptev, O.A. Pantsyrnyi, I.O. Fedorov (Keldysh Institute of Applied Mathematics, Russian Space Systems)*

IAA-AAS-CU-17-06-02

Building Low Cost CubeSats: Guidelines and Design Approach - *Ibtissam Latachi, Tajjeeddine Rachidi, Mohammed Karim, Ahmed Hanafi (University Sidi Mohammed Ben Abdellah, AlAkhawayn University in Ifrane)*

IAA-AAS-CU-17-06-03

CubeSat Constellation Deployment Strategies - *Christophe Vakaet, Alessandra Menicucci (Delft University of Technology)*

IAA-AAS-CU-17-06-04

Development of Modular 3U CubeSat Standard Platform and Its Application to KAUSAT-5 - *Sua Song, Hong-Rae Kim, Young-Keun Chang (Korea Aerospace University)*

IAA-AAS-CU-17-06-05

MOVE-II – The Munich Orbital Verification Experiment II - *Martin Langer, Florian Schummer, Nicolas Appel, Thomas Grübler, Katja Janzer, Jonis Kiesbye, Lucas Krempel, Alexander Lill, David Messmann, Sebastian Rueckerl, Michael Weisgerber (Technical University of Munich)*

IAA-AAS-CU-17-06-06

SPUTNIX Education: from Satellite Mockup to CubeSat Launch - *Zaynulla S. Zhumaev, Anton L. Vlaskin, Anton S. Sivkov, Roman N. Zharkih (SPUTNIX)*

IAA-AAS-CU-17-06-07

Development of a Flexible Nanosatellite Mission Control System Using Agile Development Methodology - *Richard Duke, Brian Stewart, Ben Taylor, Christopher P. Bridges, Simon Fellowes, Guglielmo Aglietti (University of Surrey)*

IAA-AAS-CU-17-06-08

CuRe - A Systematic Effort Towards CubeSat Reliability - *Alessandra Menicucci, Fulvio Capogna, Gianluca Furano (Delft University of Technology, European Space Agency)*

19:00-19:30 Technical Sessions: Mission Analysis

IAA-AAS-CU-17-08-01

SGP4 Propagation Error Reduction Using Bias Correction Techniques for Cubesats - *Volkan Çağlar Özcan, Alim Rüstem Aslan (Istanbul Technical University)*

IAA-AAS-CU-17-08-02

TOM: A Formation for Photogrammetric Earth Observation by Three CubeSats - *Klaus Schilling, Tristan Tzschichholz, Iurii Motroniuk, Anna Aumann, Ilham Mammadov, Oliver Ruf, Christopher Schmidt, Martin Langer, Alexander Kleinschrodt, Sergio Montenegro, Andreas Nüchter (University of Würzburg, Zentrum für Telematik e.V., DLR, Technical University of Munich)*

THURSDAY, December 7th, 2017

09:30-10:00 Invited Lecture – Klaus Schilling (University of Würzburg): Pico-Satellite Formations: The Next Technology Challenge for CubeSats for Enabling Innovative Science.

10:00-10:45 Technical Sessions: PocketQube

IAA-AAS-CU-17-07-01

Femto, Pico, Nano: Overview of New Satellite Standards and Applications - *Chantal Cappelletti (University of Brasília)*

IAA-AAS-CU-17-07-02

Intelligent Femto Satellite Development - *Chafaa Hamrouni, Abdessalem Bsisso, Adel M. Alimi (ISET Gabes and ENIS, REGIM Lab., University of Gabes, University of Sfax)*

IAA-AAS-CU-17-07-03

A New Electrical Power System Architecture for Delfi-PQ - *Mehmet Şevket Uludağ, S. Speretta, J. Bouwmeester, E. Gill, T. Perez Soriano (Delft University of Technology)*

10:45-11:00 Technical Sessions: Subsystems

IAA-AAS-CU-17-09-01

UNISEC CSDI - An Advanced Efficient Electrical Interface Standard for CubeSats - *Stephan Busch, Oliver Ruf, Klaus Schilling (Zentrum für Telematik e.V., University of Würzburg)*

11:00-11:15 Coffee break

11:15:13:00 Technical Sessions: Subsystems

IAA-AAS-CU-17-09-09

Design, Manufacturing and Qualification of 6U Deployable Solar Arrays for Deep Space Missions - *Vicente Diaz (DHV Technology)*

IAA-AAS-CU-17-09-10

New GAUSS T&C Radios for Microsatellites - *Aitor Conde Rodriguez, Marco Truglio, Filippo Graziani, Augusto Nascetti (GAUSS SRL, Sapienza University of Rome)*

IAA-AAS-CU-17-09-02

Changing of the Requirements and Business Models for CubeSat Deployer - *Stephan Roemer, Thomas Hellwig (Astro- und Feinwerktechnik Adlershof GmbH)*

IAA-AAS-CU-17-09-03

SpooQy-1, a CubeSat to Demonstrate an Entangled Photon Light Source - *Xueliang Bai, Md. Tanvirul Islam, Karthik Ilangoan, Hong Nhung Nguyen, Rakhitha Chandrasekara, Zhongkan Tang, Zongsheng Tang, Simon Barraclough, Douglas Griffin, Russell Boyce, Alexander Ling (National University of Singapore, University of New South Wales Canberra)*

IAA-AAS-CU-17-09-04

New Three Dimensional Phased Array Antenna for Space Communications - *Nobuyuki Kaya (WaveArrays, Inc., Kobe University)*

IAA-AAS-CU-17-09-05

Satellite Power Subsystem Design: Estimation of the Solar Panel Producibile Energy, Power Management Electronic Boards and Electronic Box Shielding - *Farhad Bagheroskouei, Maryam Baghban Kondori, Shahab Karbasian, Reza Amjadifard (Iranian Space Research Center)*

IAA-AAS-CU-17-09-06

A Space-Rated Soft IP-Core Compatible with Microchip® PIC Hardware Architecture and Instruction Set - *Luigi Blasi, Antonio Mastrandrea, Francesco Menichelli, Mauro Olivieri (Sapienza University of Rome)*

13:00-14:15 Lunch

14:15-14:45 Invited Lecture – Viyas Gupta (European Space Agency): The ESA Academy Programme: Hands-on Programmes, Training and Learning Programme, and Educational Opportunities for University Students.

14:45-15:30 Technical Sessions: Subsystems

IAA-AAS-CU-17-09-11

Hercules: A Reliable OBC Saving Space in your CubeSat - *Marco Truglio, Aitor Conde Rodriguez, Filippo Graziani (GAUSS SRL)*

IAA-AAS-CU-17-09-08

Center of Mass Compensation of a Nanosatellite TestBed Based on the Extended Kalman Filter - *Rodrigo Cardoso da Silva, Renato Alves Borges, Simone Battistini, Chantal Cappelletti (University of Brasília)*

IAA-AAS-CU-17-09-07

Using Logs and KPIs in OBC Subsystem in Uok-Sat3 - *Mahmoud Esawi Babiker, Hind Hassan Elkhalfi Taha (University of Khartoum)*

15:30-16:00 Technical Sessions: New Perspectives

IAA-AAS-CU-17-10-02

Optimal Formation Inspection Using Small Spacecraft - *Andrea Caruso, Giovanni Mengali, Alessandro A. Quarta (University of Pisa)*

IAA-AAS-CU-17-10-01

The Constellation for Mars Position Acquisition Using Small Satellites: CubeSat Design Feasibility and Challenges - *Patrick Kelly, Riccardo Bevilacqua (University of Florida)*

16:00-16:15 Coffee break

16:15-18:00 Technical Sessions: New Perspectives

IAA-AAS-CU-17-10-03

Project of the Technology Testing of the Formation Flight of Low-Orbit Nanosatellites - *Igor Belokonov, Denis Avariaskin (Samara National Research University)*

IAA-AAS-CU-17-10-04

Why And How Small Satellites Can Be Used For Scientific Research - *Arvin Joseff Tan, Avijit Ashe, Shreya Santra, Rayan Imam, Roger Birkeland, Kiran Tikare, Lucas Salvador (SGAC, PHL-Microsat Program, International Institute of Information Technology, Skoltech, University of Khartoum, Norwegian University of Science and Technology, VEOWARE)*

IAA-AAS-CU-17-10-05

SPUTNIX OrbiCraft Pro – Complete CubeSat Kit Based on Raspberry-Pi - *Zaynulla Zhumaev, Roman Zharkih, Alexander Purikov, Veronika Shteyngardt, Anton Sivkov (SPUTNIX)*

IAA-AAS-CU-17-10-06

Will CubeSats Introduce a Moores Law to Space Science Missions? - *René W. Fléron (Technical University of Denmark)*

IAA-AAS-CU-17-10-07

Future Roadmap of the Commercial CubeSat Industry - *Mitchell Scher, Roger Birkeland, Lucas Salvador, Daria Stepanova, Arvin Joseff Tan (SGAC, Norwegian University of Science and Technology, Liège Space Center, VEOWARE, Germany Orbital Systems Company, PHL-Microsat Program)*

IAA-AAS-CU-17-10-08

A Constellation of CubeSats for Amazonian Rainforest Deforestation Monitoring - *Lucas M.B. da Silva, Fernanda P. Cyrne, Iohana G.G. de Siqueira, Pedro Henrique Beghelli, Rafael da S. Rodrigues, Chantal Cappelletti (University of Brasília)*

IAA-AAS-CU-17-10-09

Analysis, Design and Applications of an Hyperspectral CubeSat Mission - *Alessandro Piro, Daniele Casella, Sabrina Pinori, Lorenzo di Ciolo, Chantal Cappelletti, Simone Battistini (SERC0, GAUSS SRL, University of Brasília)*

18:00 STIRRUP CUP



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